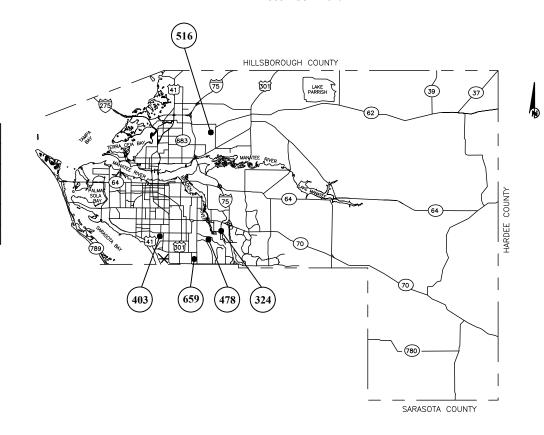


SATELLITE LIFT STATION R&R **2018 GROUP 3** 402-0019707

December 2019

RTU # ADDRESS L.S.NAME/NO. PROJECT JL NO. 6290 LINGER LODGE RD., BRADENTON 5005132 BRADEN RIVER 324 HAWAIIAN VILLAGE 5005128 MOTE RANCH 1 5005129 8001 55TH ST. E., BRADENTON 5005130 THOUSAND OAKS UNIVERSITY GROVES 1 659 3622 80TH DR. E., BRADENTON



BID DOCUMENTS

NO.	INDEX OF SHEETS
01	COVER SHEET
02	GENERAL NOTES & LEGEND
03	VIC MAPS
04	BRADEN RIVER
05	HAWAIIAN VILLAGE
06	MOTE RANCH 1
07	MOTE RANCH 1 FM RE-ALIGNMENT
08	THOUSAND OAKS
09	UNIVERSITY GROVES 1
10	DETAILS
11	DETAILS
12	DETAILS
13	EROSION CONTROL

PROJECT DESCRIPTION

REHABILITATE SEWAGE LIFT STATIONS TO REDUCE RISK TO PUBLIC HEALTH AND ENVIRONMENTAL POLLUTION. THE WORK SHALL CONSIST OF, BUT NOT LIMITED TO, WET WELL CLEANING, THE REPLACEMENT OF DISCHARGE PIPING, FITTINGS, VALVES, SWING CHECK VALVES, GUIDE RAILS, PIPE BRACINGS, BASE ELLS, AND/OR MOUNTING PLATES. WET WELL LINER MAY NEED TO BE INSTALLED, REPAIRED OR REPLACED. SEE INDIVIDUAL PLAN SHEETS FOR SPECIFIC REHABILITATION AND INSTALLATIONS REQUIREMENTS FOR EACH LIFT STATION.





SATELLITE LIFT STATION R&R **2018 GROUP**

PROJECT # 402-0019707

URVEY #

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: ANTHONY BENITEZ, P.E. AND CAN BE REACHED AT: (941) 708-7450 EXT. 7333
- 3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS. THE STANDARDS CAN BE DOWNLOADED FROM THE MANATEE COUNTY WEBSITE, http://www.mymanatee.org/home/government/departments/public-works/engineering-services/engineering-standards.html
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTRACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL B11 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT
- NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.

- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- 10. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- 11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

- 13. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
- 14. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
- 15. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- 16. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30)
- 7. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE
- 18. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
- 19. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
- . SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY CORPENIE.
- 21. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 22. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE THE CONTRACTOR STALL WORK IN THE VICINITY OF OPEN WATER AND/OR WEITHARDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
- 23. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

- 24. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 25. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 26. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES
 HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE
 REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE—CONSTRUCTION MEETING.
- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
- 28. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
- 29. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.
- 30. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

- 31. Locations, elevations and dimensions of existing utilities, structures and other features are shown to the best information available at the time of preparation of these plans but do not purport to be absolutely correct. There may be other improvements, utilities, etc. which are within the project area and which have not been located or identified, may not be in the exact location shown or relocated since the preparation of these plans. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATION S. LEUCATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION, ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR
- 32. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION
- 33. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
- 34. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- 35. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

- 36. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS
- 37. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
- 38. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE
- 39. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
- 40. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, AND F.D.O.T. DESIGN STANDARDS. CONCRETE USED SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI © 28 DAYS.
- 41. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NIRE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
- 42. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY—FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY—ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

- 43. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFLES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
- 44. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- 45. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS
- 46. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 47. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
- 48. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- 49. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- 50. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 51. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
- 52. ALL FITTINGS FOR PRESSURE CLASS—RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
- 53. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
- 54. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
- 55. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER. 56. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED
- 57. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD
- 59. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN. ETC., SHALL NOTIFY THE AFFECTED THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF, REFERENCE SECTION 0.1580, PARAGRAPH 1.0.3 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS. WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, SARASOTA HERALD TRIBUNE, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.
- 60. ALL NEW PIPE LINES SHALL BE PIG CLEANED (4" AND LARGER), FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIG CLEANING AND PRESSURE TESTING.
- 61. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP
- 62. ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS. ABANDONED MAINS SHALL BE CUT, FILLED WITH GROUT, AND CAPPED. REFER TO SECTION 02064 OF THE SPECIFICATIONS FOR GROUTING OF ABANDONED PIPE.
- 63. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE LAID PER CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.
- 64. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES,

AS ORDERED BY THE ENGINEER

65. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 1.14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 1.14 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 1.14 WILL BE PROVIDED UPON REQUEST

EMERGENCY CONTACTS

MANATEE COUNTY MANATEE COUNTY
PUBLIC WORKS DEPT.
UTILITY ENGINEERING
SCOTT MAY, P.E.
1022 26TH AVENUE EAST
BRADENTON, FL. 34208 (941) 708-7450 EXT. 7650 FAX: (941) 708-7475

TECO/PEOPLES GAS CO. DAN SHANAHAN 8261 VICO COURT SARASOTA, FL. 34240 (941) 342-4030 FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911 djshanahan@tecoenergy.com

SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770

VERIZON FLORIDA INC. WAYNE SUMNER 1701 RINGLING BLVD. SARASOTA, FL. 34236 WAYNE.SUMNER@verizon.com

FLORIDA POWER & LIGHT GREG COKER 1253 12TH AVENUE EAST PALMETTO, FL 34221 (941) 723-4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE Greg_Coker@fpl.com

FLORIDA GAS TRANSMISSION SAFETY HARBOR TEAM 7804 ANDERSON RD. TAMPA, FL. 33634 CHRIS LEE (813) 466-3327 CELL: (727) 639-7512

BRIGHT HOUSE NETWORKS TOM WRIGHT 5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5535 (941) 748-3816 EXT. 21348

DEPARTMENT OF ENVIRONMENTAL PROTECTION
STEPHANIE BARIOS
13051 N. TELECOM PKWY
TEMPLE TERRACE, FL 33637 PHONE: (813) 632-7600, EXT. FAX: (813) 632-7662

PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310
WACHULA, FL 33873
KENDELL COKER
(863) 767-4660 kendell.coker@preco.coop

LEGEND

EXISTING CONCRETE MONUMENT TREE IRON PIPE OAK TREE PALM TREE IRON ROD PINE TREE

EDGE OF VEGETATION HUB ▲ N&D Reserve - CHAIN LINK FENCE PARCEL ID NO. - BARBED WIRE FENCE GUY WIRE - RECLAIMED WATER LIGHT POLE MAIL BOX - GAS LINE - OVERHEAD T SPRK (GAS MARKER - OVERHEAD ELECTRIC BFP -O- BACKFLOW PREVENTER - UNDERGROUND ELECTRIC BLOW OFF VALVE FH Q WV ⋈ FIRE HYDRANT — us ver — UNDERGROUND VERIZON WATER VALVE AIR RELEASE VALVE ARV (A) WM - WATER METER SANITARY SEWER MANHOLE - RAIL ROAD TRACKS SANITARY SEWER CLEAN OUT - EDGE OF CONCRETE SB#1 SOIL BORING LOCATION
TEL (TEL) TELEPHONE SERVICE BOX - EDGE OF ROAD TOE OF SLOPE FLOW DIRECTION - TOP OF BANK - PROPERTY LINE - RIGHT OF WAY

CONCRETE ASPH ASPHALT SIDEWALK BACK OF CURB

PROPOSED - SERVICE LINE - PROPOSED EASEMENT FIRE HYDRANT VALVE BLOW OFF ASSEMBLY REDUCER TEE

0 0 MASTER METER ASSEMBLY SERVICE LINE & METER DOUBLE SERVICE PROPOSED PROJECT NOTES JOB SPECIFIC (EXAMPLE):

HORIZONTAL BEND

VERTICAL BEND

WATER LINE CALL-OUT (TYPICAL) STA. 40+60, 17' LT. 1-6" GATE VALVE 1-6" FITTING

FManatee County

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3

 \simeq $\mathbf{\Xi}$

> 8 ∞ 2

Ś

PROJECT # 402-0019707 SURVEY #

SEC./TWN./RGI VARIES

SCALE

SCALE

DATE

SUSCIPEIS

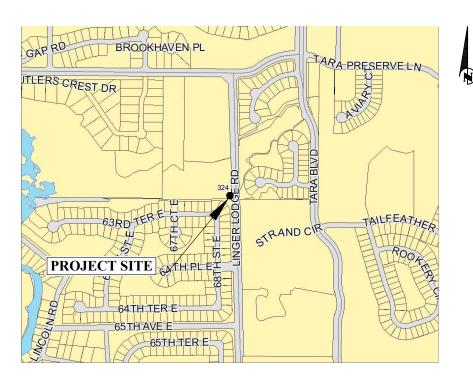
PRAWN

CHECKER 0 3

CHOUNES

CHOUNE J SHEA SHOU FEORIDA P.E.

12/4/19
CORIDA
CONAdacture A Vete
HHI1102 O'



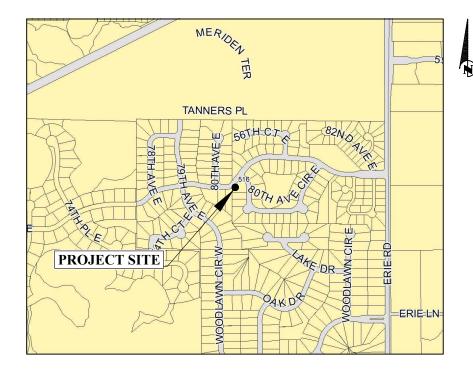
BRADEN RIVER, RTU 324, 6290 LINGER LODGE RD, BRADENTON



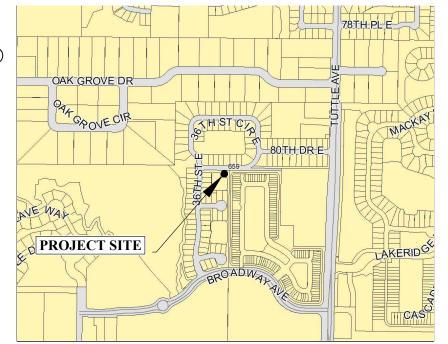
HAWAIIAN VILLAGE, RTU 403, 102 MOLOKAI DR., BRADENTON



MOTE RANCH 1, RTU 478, 5850 CARRIAGE DR., BRADENTON



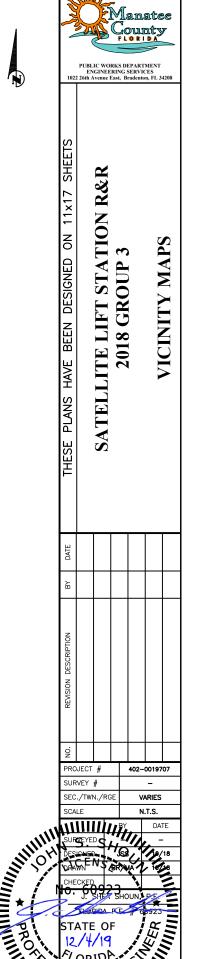
THOUSAND OAKS, RTU 516, 8001 55TH ST. E., BRADENTON



UNIVERSITY GROVES 1, RTU 659, 3622 80TH DR. E., BRADENTON

NOTE(S):

1. LIFT STATION SITE VISITS MAY BE COORDINATED WITH NICK WAGNER, 941-792-8811 x5377.



GENERAL NOTES

- THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
- 2. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- 3. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
- 4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR
- 5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE

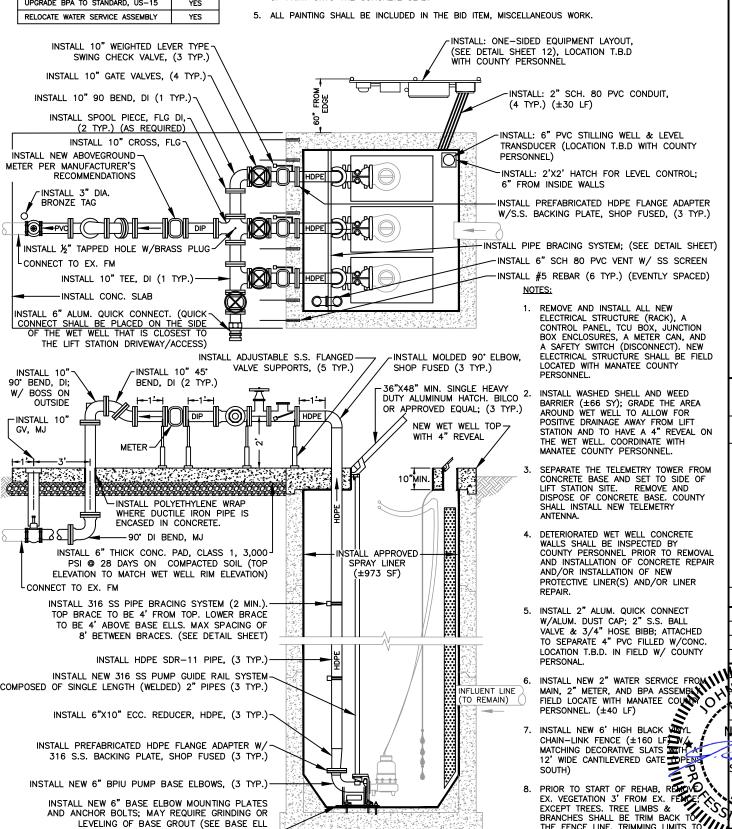
324	
600/56	
10"	
10'X12'	
-9.90'	
12.00'	
12.00'	
-8.27'	
10"	
10"	
PVC	
200	
460/3	
FM	
	600/56 10" 10'X12' -9.90' 12.00' 12.00' -8.27' 10" PVC 200 460/3

ı	6. MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE	ELECT. SERVICE SIZE, AMPS 200	ı
	CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.	ELECT. POWER, VOLTS/PH 460/3	ı
t t	7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN	EX. FM TIE-IN FM	ı
now-ezi	CONDITIONS. 8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.	* INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2018) & RECORD DRAWINGS. DATUM OF ELEVATIONS IS UNKNOWN.	
Fills		ELEVATIONS IS UNKNOWN.	l
(seq	9. THE EXISTING CHECK VALVES & GATE VALVE SHALL BE REUSED. THE CONTRACTOR SHALL HAVE THE VALVES REHABILITATE BY THE MANUFACTURE/SUPPLIER. TELEMETRY		ı
0	TOWER (PENOVE)		ı
110	WEIGHTED CHECK VALVE (REMOVE) EX. ATS CONT.	. PANEL	ı
è		MOVE)	ı
(17)	EX. METER—		ı
α ζ	(REMOVE) HATCH OPENING		١,
a d	VALVE VAULT (3 TYP., REMOVE)		"
14	(ABANDON)		i
ANA	FORCE MAIN		ı
F	(REMOVE)		i
u log		o 🖟	8
0		INFLUENT LINE	ı
i N	DIP DIP HDPE	(TO REMAIN)	ı
85			ı
0		-	ı
/201	VALVE W/ CONC. PAD (REMOVE)	HATCH OPENING	ı
12/4	CROSS, DI (REMOVE)	(3 TYP., REMOVE)	ı
20	QUICK CONNECT, 90° BEND, DI (REMOVE)	77	ı
3 044			ı
9	DISCULADOS DIDINO	namining programme and the street street street and the street st	ı
18	GATE VALVE (3 TYP., REMOVE)— GATE VALVE (3 TYP., REMOVE) (3 TYP., REMOVE)		ı
R 20	O	TOD CLAD OF WELL (DEMOVE)	
S.S.	EX. GENERATOR (REMAIN) HOSE BIB	TOP SLAB OF WET WELL (REMOVE)	ı
15/5	VALVE W/ CONC. (REMOVE)	ALUM. HATCH. (REMOVE)	Ι.
) DWG	PAD (REMOVE)	PVC VENT (REMOVE)	П
5	VAULT TOP & ALUMINUM— HATCHES; BOTH VAULTS (REMOVE)		ľ
Š			ı
2018			
RAR	SAW CUT & REMOVE FIRST 2' OF WALLS; REMOVE PORTIONS OF REMAINING WALL TO		
515	ALLOW FM INSTALLATION. (BOTH VAULTS)		XI.
rodes		1	ı
Ilpo	DIP 1 HDPE		
1	DIP ICH SHIPE IN THE SHIPE IN T	WET WELL LINER	Q
ð		(T-LOCK, REMOVE)	ı
800		(±973 SF)	ı
Pro.	CONCRETE SUPPORT, (3 TYP., REMOVE)		ı
SWR			ı
NA2	CORNERS THRU THE BOTTOM OF THE VAULTS PRIOR		ı
S	TO BACKFILLING W/COMPACTED CLEAN FILL (12CY);		ı
a/noi	BOTH VAULTS	// <u>[</u> 2]	ı
Sec.	EX. DRAIN (ABANDON, PATCH HOLES)	//	ı
F	90° ELBOW (3 TYP., REMOVE)	// INFLUENT LINE	ı
Ė		(TO REMAIN)	CC
Þ	PIPE BRACING (3 TYP REMOVE)		ı
PNING	PIPE BRACING (3 TYP., REMOVE)		ı
SOVE			ı
ΔN			ĺ
Ę.	CTANUESCO CTEST CHUPE DAN OVOTEN (7 TVD DENOIS)		ı
MANATER COLINTY GOVERNMENT H-\ IIII Foo Design\PRO.I\	STAINLESS STEEL GUIDE RAIL SYSTEM (3 TYP., REMOVE)		ı
AM (ı
2010	DISCHARGE PIPING (3 TYP., REMOVE)		ı
PIGHT		<u> </u>	ı
YOU	PUMP BASE ELBOWS & ANCHORING HARDWARE (3 TYP., REMOVE)		ı
Ľ	1		_

INSTALL FIBERGLASS W.W. LINER NO YES APPLY SPRAY LINER W.W. LINER YES INSTALL STILLING WELL YES INSTALL FORCE MAIN G.V. YES NEW HDPE PIPING IN W.W. YES, 10" NEW BASE ELL 6" BPIU-16 RAISE TOP OF WET WELL: NO NO RAISE TOP OF VALVE VAULT: REPLACE WET WELL VENT PIPE YES UPGRADE BPA TO STANDARD, US-15 YES RELOCATE WATER SERVICE ASSEMBLY

MOUNTING PLATE DETAIL ON DETAIL SHEET)(3 TYP.)

- 1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.
- 2. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAT 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A EDGING TOOL HAVING A RADIUS OF 1/2".
- EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
- THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLEUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY OF PAINT ONTO THE CONCRETE SLAB.



PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3420

FManatee

County

TION 3 A P STO LIFT 18 GRO **E E** ATEL

S

PROJECT # URVEY # SEC./TWN./RGE 23/35/18

SCALE N.T.

SUPPLYEDS H
N BRAN 100

WAS SHOUN BRAN 100

THE # 60923 SUKSTYEDS LA

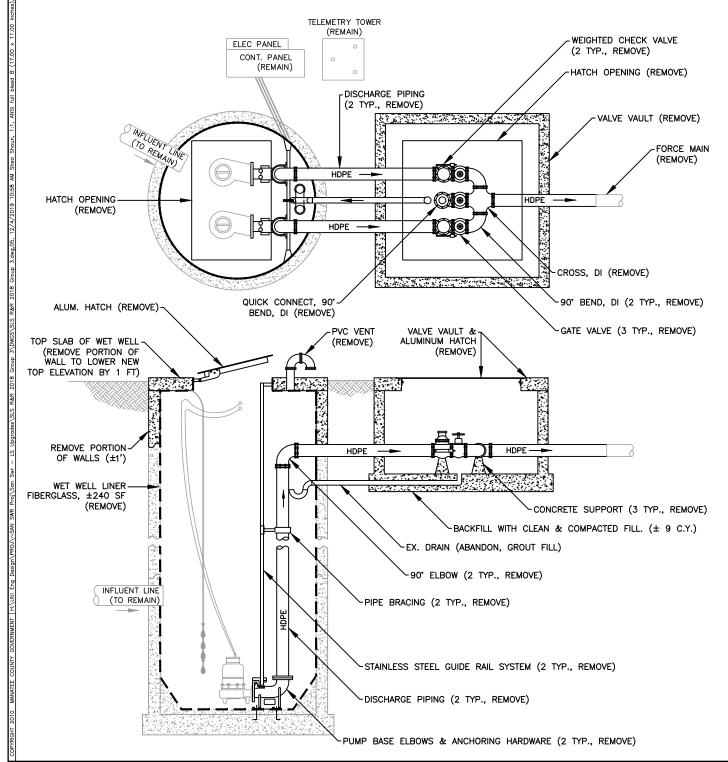
PERSONNEL. (±40 LF) 7. INSTALL NEW 6' HIGH BLACK VILLY CHAIN-LINK FENCE (±160 LF MATCHING DECORATIVE SLATS THE 12' WIDE CANTILEVERED GATE TOP

8. PRIOR TO START OF REHAB, REDUCE
EX. VEGETATION 3' FROM EX. FEACE:
EXCEPT TREES. TREE LIMBS &
BRANCHES SHALL BE TRIM BACK TO
THE FENCE LINE. TRIMMING LIMITS TO
THE FENCE LINE.

- THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
- 2. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- 3. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
- 4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR
- 5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN
- 8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.

RADIO TELEMETRY UNIT (RTU)	403
DESIGN CAPACITY GPM/TDH	155/18.0
DISCHARGE PIPING DIAMETER	3"
WET WELL DIAMETER	4'
BOTTOM SLAB ELEVATION	10.60'
TOP ELEVATION	28.70'
VALVE VAULT HATCH ELEVATION	28.70'
INFLUENT INVERT ELEVATION	13.60'
INFLUENT PIPE SIZE	8"
FORCE MAIN DIAMETER	3"
WET WELL VENT PIPE	PVC
ELECT. SERVICE SIZE, AMPS	40
ELECT. POWER, VOLTS/PH	230/3
EX. FM TIE-IN	мн

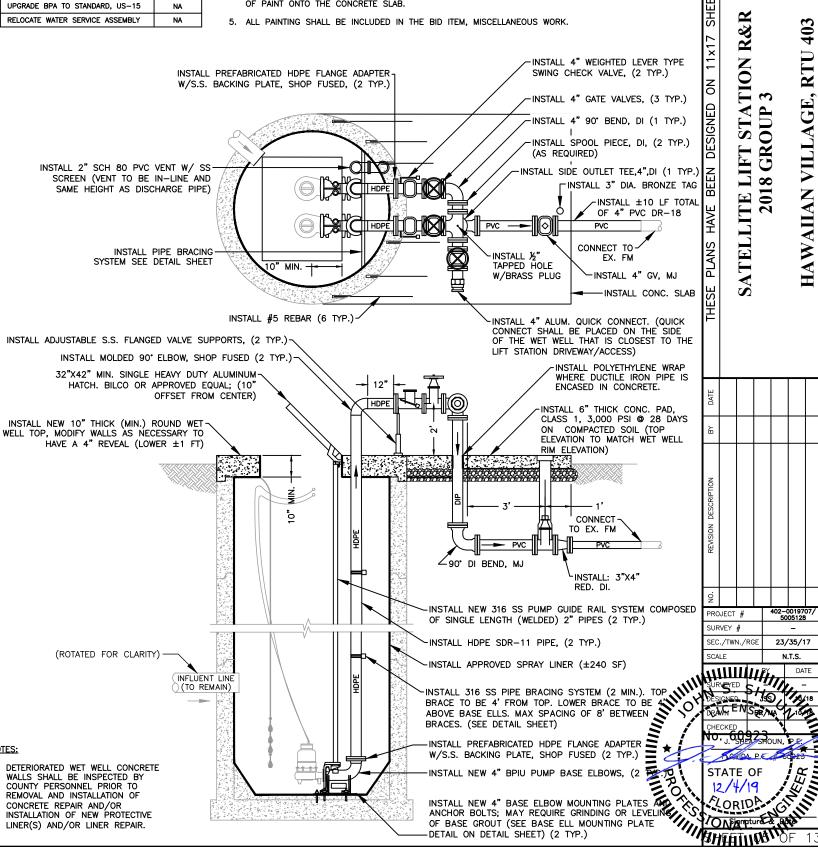
* INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2018) & RECORD DRAWINGS. DATUM OF ELEVATIONS IS UNKNOWN.



PROPOSED

INSTALL FIBERGLASS W.W. LINER NO	NO
APPLY SPRAY LINER W.W. LINER	YES
INSTALL STILLING WELL	NO
INSTALL FORCE MAIN G.V.	YES
NEW HDPE PIPING IN W.W.	YES, 4"
NEW BASE ELL	4" BPIU-1
RAISE TOP OF WET WELL:	YES, 1'
RAISE TOP OF VALVE VAULT:	NA
REPLACE WET WELL VENT PIPE	YES
UPGRADE BPA TO STANDARD, US-15	NA
RELOCATE WATER SERVICE ASSEMBLY	NA
·	

- 1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.
- THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAT 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A EDGING TOOL HAVING A RADIUS OF 1/2".
- EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
- THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLEUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY OF PAINT ONTO THE CONCRETE SLAB.





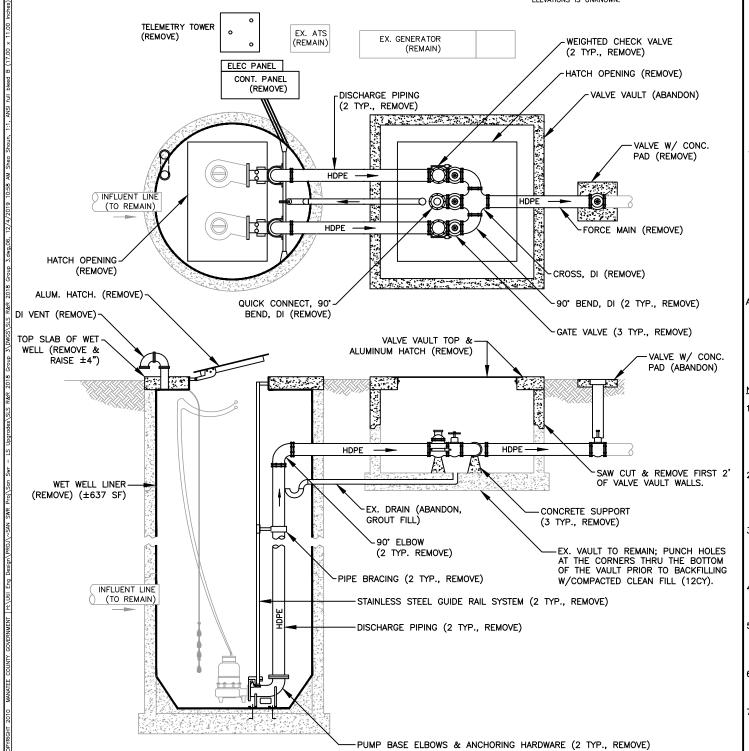
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3

23/35/17

- THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
- 2. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- 3. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
- REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR
- 5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN
- 8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.

RADIO TELEMETRY UNIT (RTU)	478
DESIGN CAPACITY GPM/TDH	423/115.0
DISCHARGE PIPING DIAMETER	6"
WET WELL DIAMETER	8'
BOTTOM SLAB ELEVATION	-3.00'
TOP ELEVATION	18.00'
VALVE VAULT HATCH ELEVATION	18.00'
INFLUENT INVERT ELEVATION	4.44'
INFLUENT PIPE SIZE	10"
FORCE MAIN DIAMETER	6"
WET WELL VENT PIPE	PVC
ELECT. SERVICE SIZE, AMPS	200
ELECT. POWER, VOLTS/PH	460/3
EX. FM TIE-IN	FM

* INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2018) & RECORD DRAWINGS. DATUM OF ELEVATIONS IS UNKNOWN.



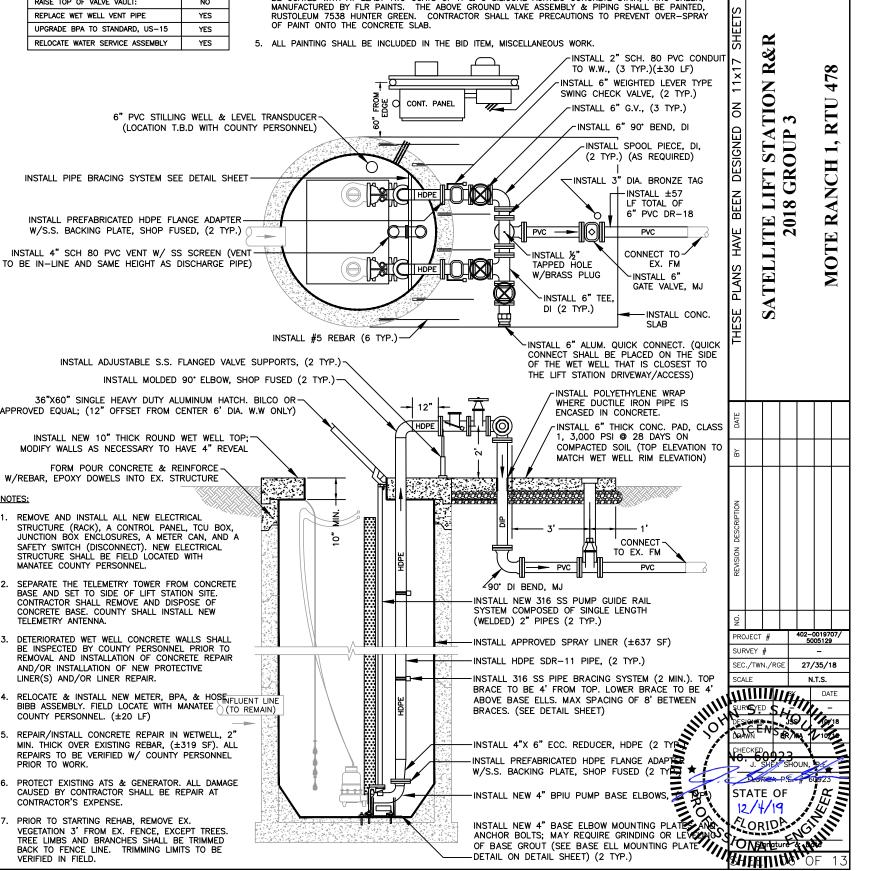
PROPOSED

VERIFIED IN FIELD.

INSTALL FIBERGLASS W.W. LINER NO	NO
APPLY SPRAY LINER W.W. LINER	YES
INSTALL STILLING WELL	YES
INSTALL FORCE MAIN G.V.	NO
NEW HDPE PIPING IN W.W.	YES, 6"
NEW BASE ELL	4" BPIU-14
RAISE TOP OF WET WELL:	YES, 4"
RAISE TOP OF VALVE VAULT:	NO
REPLACE WET WELL VENT PIPE	YES
UPGRADE BPA TO STANDARD, US-15	YES
RELOCATE WATER SERVICE ASSEMBLY	YES

GENERAL NOTES:

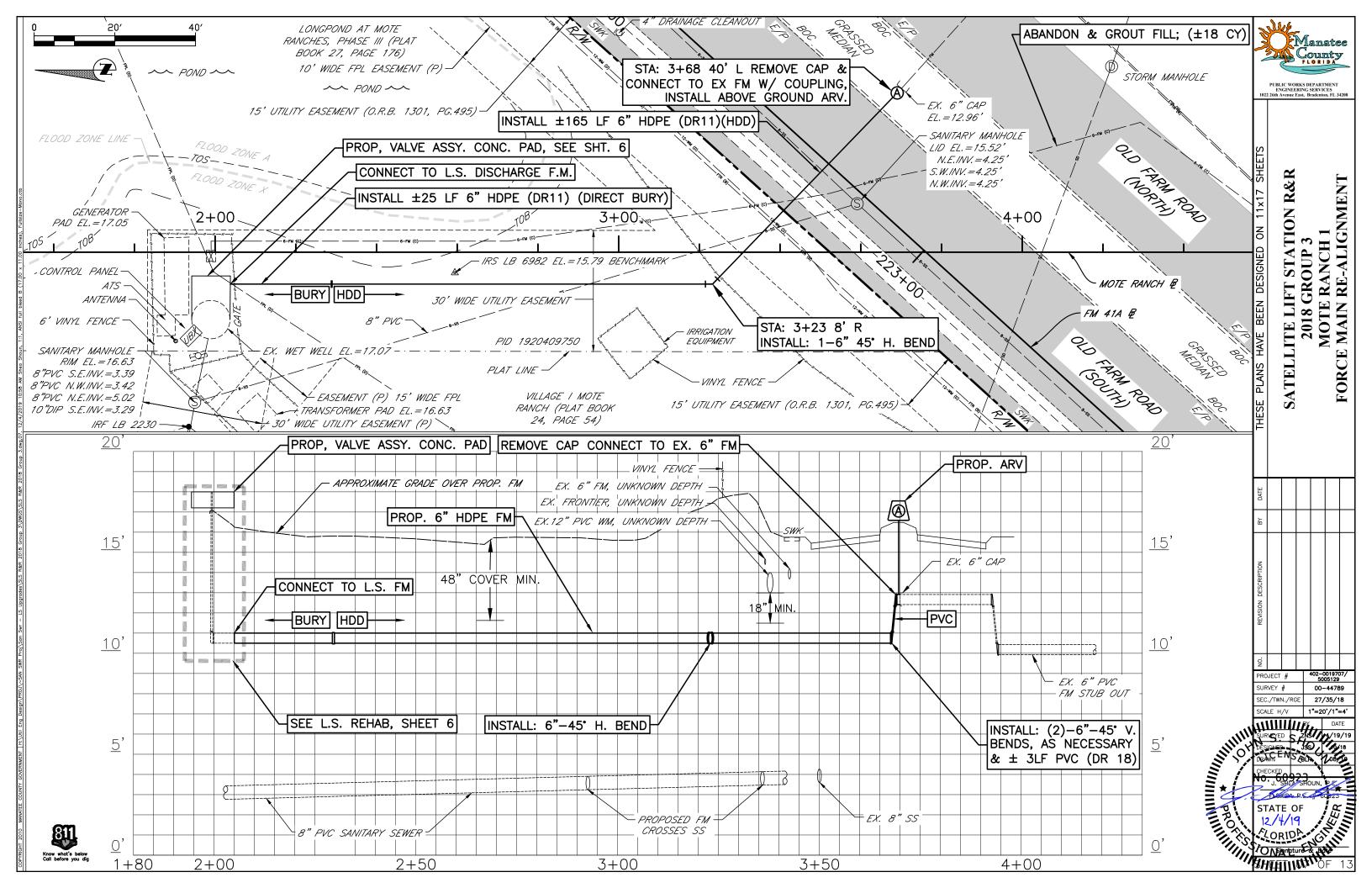
- 1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.
- 2. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAT 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A EDGING TOOL HAVING A RADIUS OF 1/2".
- 3. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
- THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED.

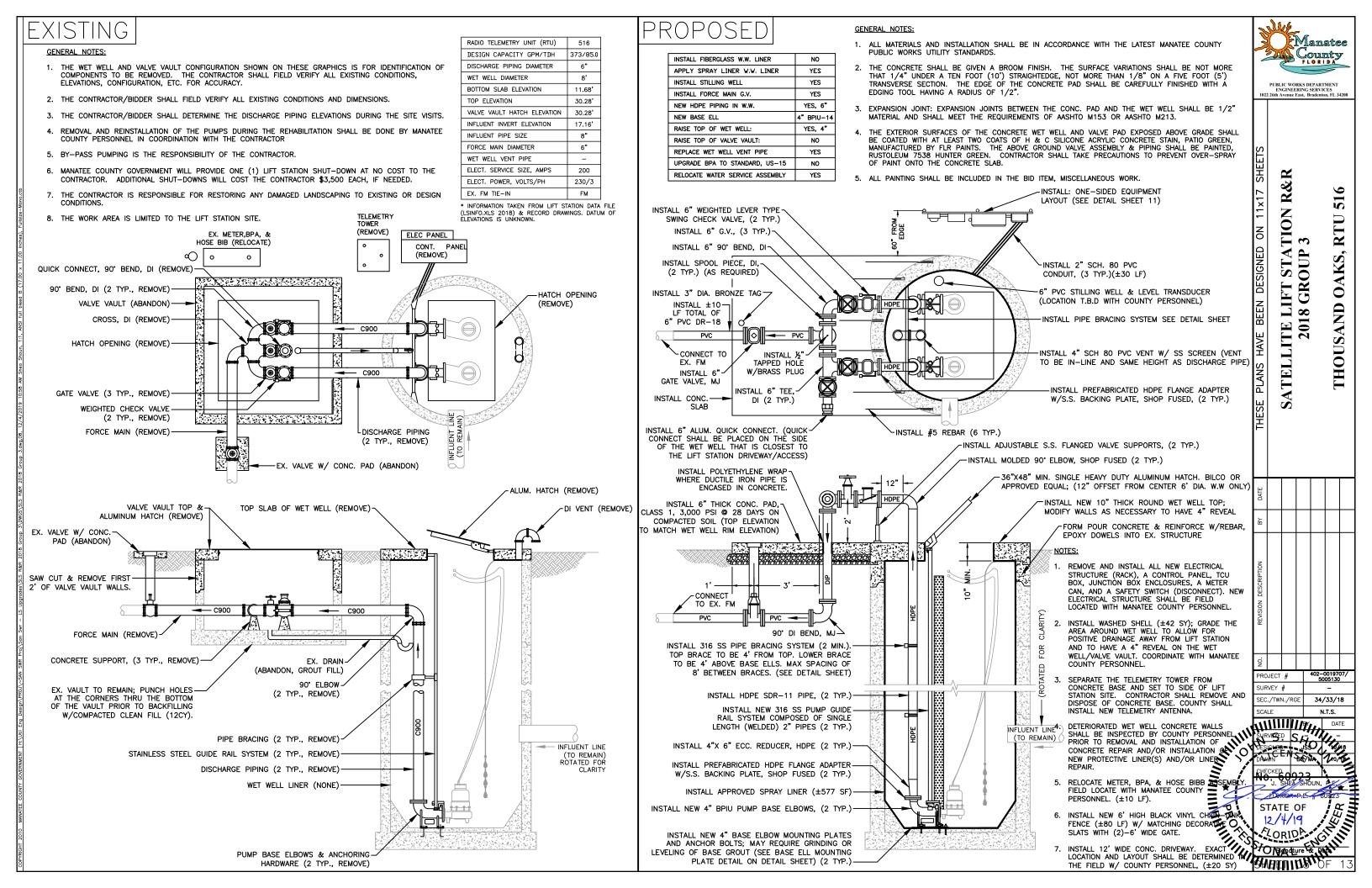


FManatee County

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3

27/35/18

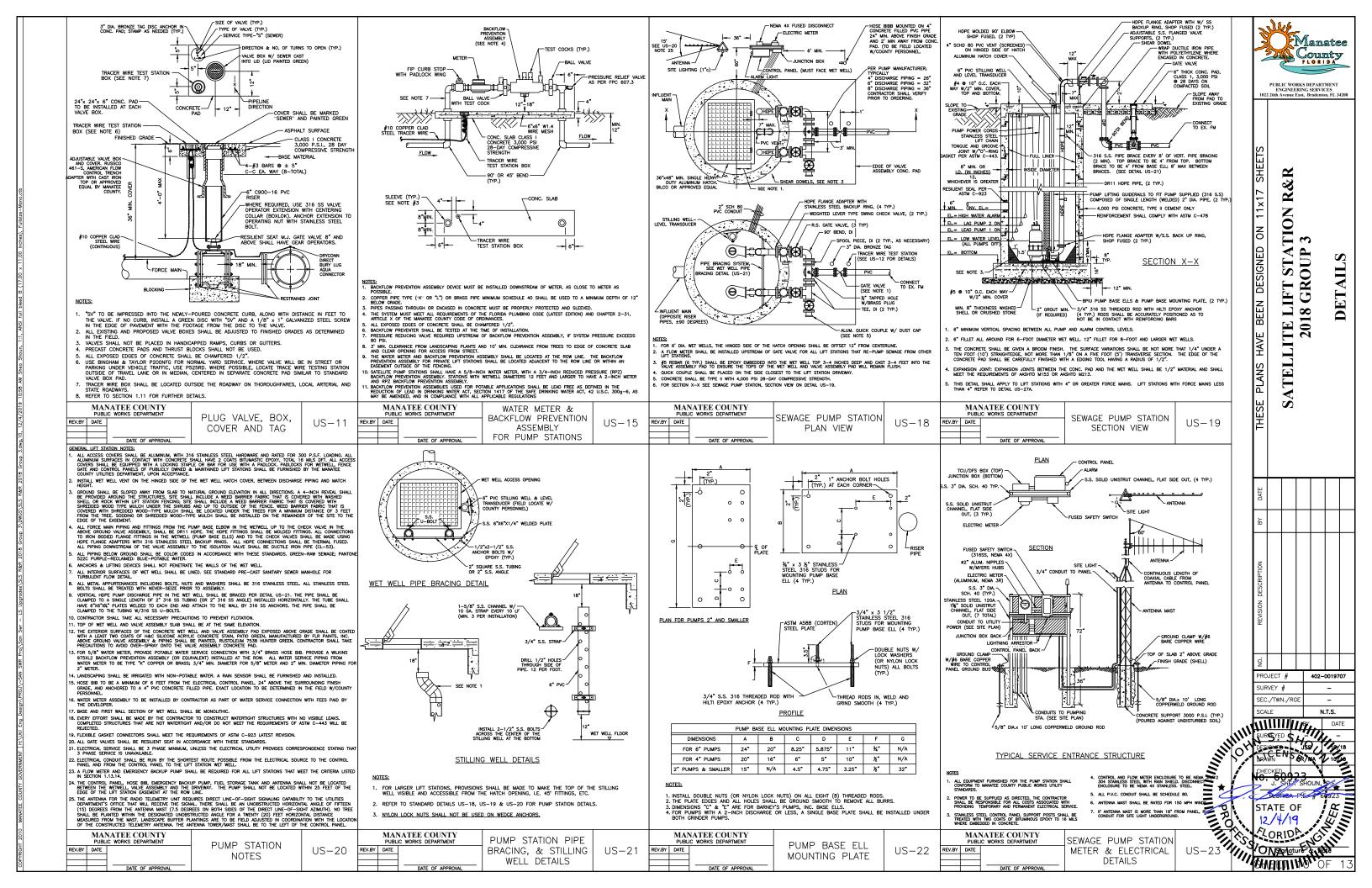


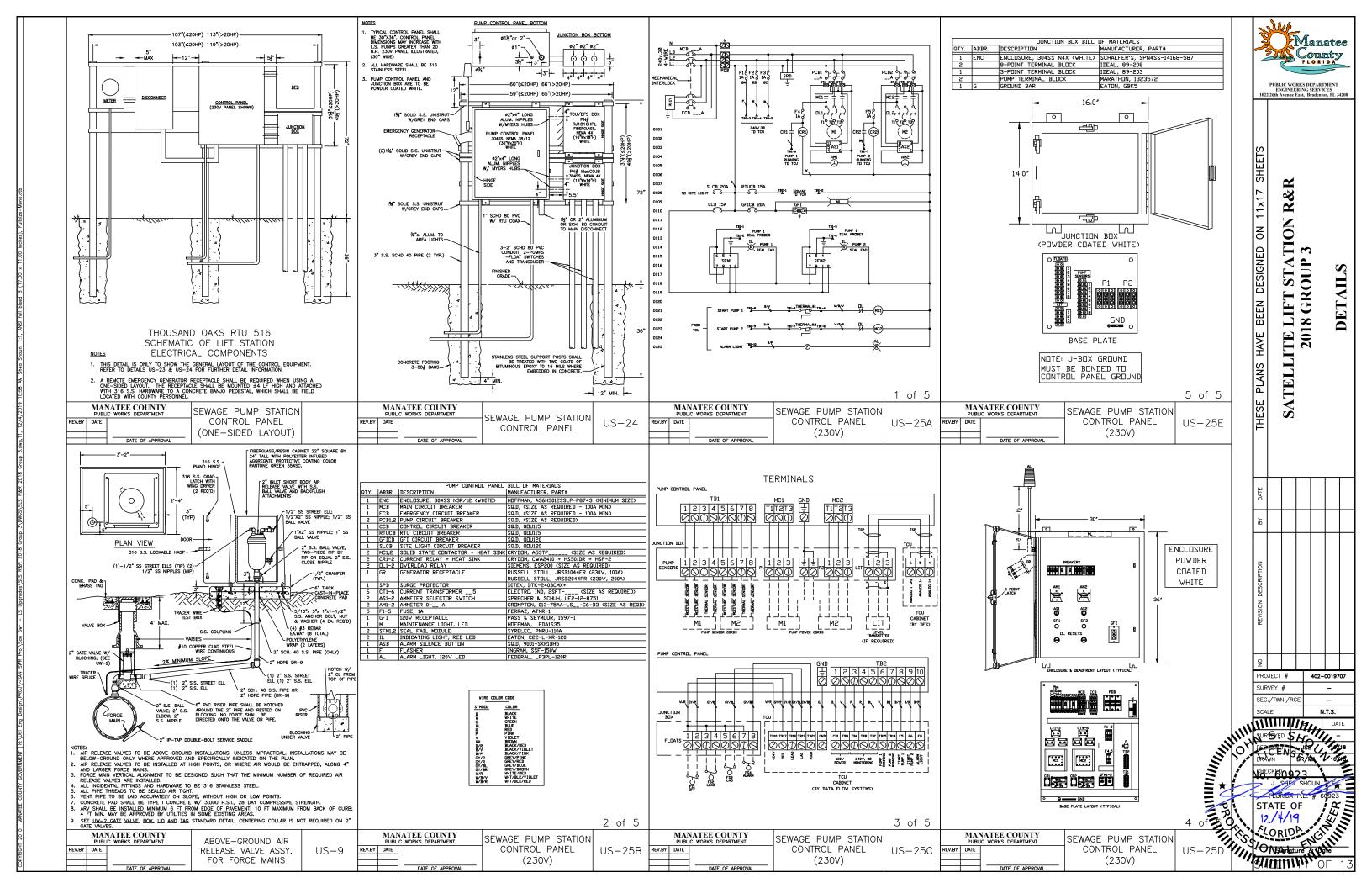


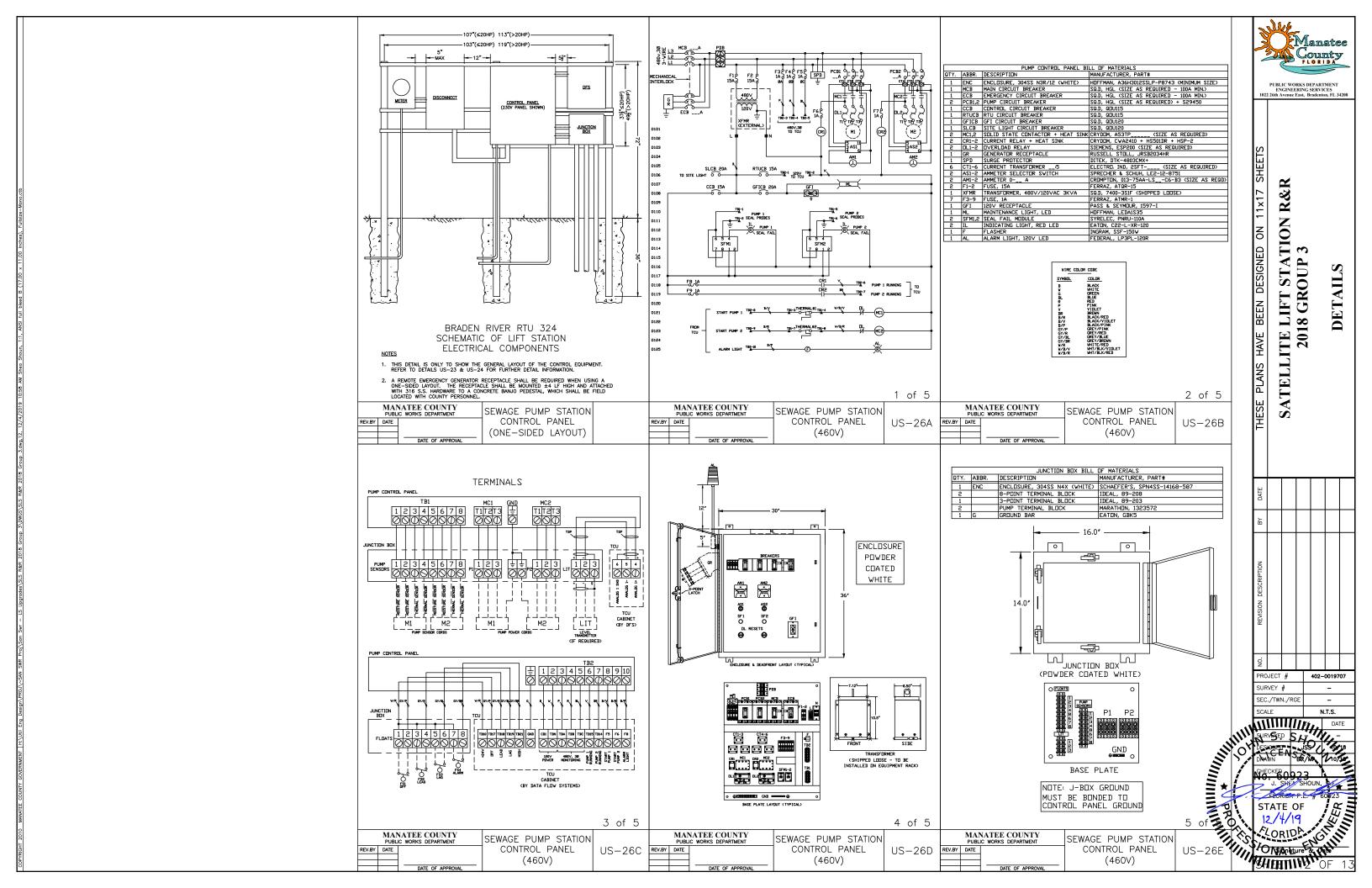
PROPOSED RADIO TELEMETRY UNIT (RTU) 659 1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY FManatee ,000/109.0 PUBLIC WORKS UTILITY STANDARDS. DESIGN CAPACITY GPM/TDH GENERAL NOTES County NO DISCHARGE PIPING DIAMETER 8" INSTALL FIRERGLASS W.W. LINER NO. 2. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, THAT 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A NO WET WELL DIAMETER APPLY SPRAY LINER W.W. LINER 10' ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY. PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3 BOTTOM SLAB ELEVATION 5.97 INSTALL STILLING WELL YES EDGING TOOL HAVING A RADIUS OF 1/2". TOP ELEVATION 30.60' INSTALL FORCE MAIN G.V. YES 2. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. 3. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" VALVE VAULT HATCH ELEVATION NEW HDPE PIPING IN W.W. YES, 8" 30.60' MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213. 3. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS INFLUENT INVERT ELEVATION 15.85 NEW BASE ELL " BPIU-1 THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, 4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE RAISE TOP OF WET WELL: COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR FORCE MAIN DIAMETER 8"/10" RAISE TOP OF VALVE VAULT: NO MANUFACTURED BY FLR PAINTS. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLEUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY WET WELL VENT PIPE PVC YES 5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR. REPLACE WET WELL VENT PIPE ELECT. SERVICE SIZE. AMPS 200 UPGRADE BPA TO STANDARD, US-15 YES 629 6. MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE 5. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM, MISCELLANEOUS WORK. ELECT. POWER, VOLTS/PH 460/3 RELOCATE WATER SERVICE ASSEMBLY YES CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED. INSTALL 2" SCH. 80 PVC EX. FM TIE-IN FM RTU 7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN CONDUIT, (3 TYP.)(±30 LF) * INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2018) & RECORD DRAWINGS. DATUM OF ELEVATIONS IS UNKNOWN. TION 3 INSTALL 8" WEIGHTED LEVER TYPE 8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE. SWING CHECK VALVE, (2 TYP.) CONT. PANEL HOSE BIB (RELOCATE) INSTALL 8" GATE VALVES, (3 TYP.) WEIGHTED CHECK VALVE ✓INSTALL 8" 90° BEND, DI IFT STAT EX. GENERATOR ATS (2 TYP., REMOVE) (REMAIN) -INSTALL SPOOL PIECE, DI HATCH OPENING (REMOVE) (2 TYP.) (AS REQUIRED) QUICK CONNECT, 90° INSTALL 6" PVC STILLING WELL & LEVEL TRANSDUCER BEND, DI (REMOVE) (LOCATION T.B.D WITH COUNTY PERSONNEL) INSTALL 3" DIA. BRONZE TAG HDPE O R VALVE VAULT (ABANDON) ∞ INSTALL ±64 LF TOTAL HATCH OPENING (REMAIN) UNIVERSITY OF 8" PVC DR-18 VALVE W/ CONC. INSTALL 6" SCH 80 PVC VENT W/ SS PVC — PAD (REMOVE) SCREEN (VENT TO BE IN-LINE AND CONNECT TO-SAME HEIGHT AS DISCHARGE PIPE) PVC -INSTALL ½" HDPE O DO EX. FM TAPPED HOLE W/BRASS PLUG -INSTALL 8" PVC GATE VALVE, MJ INSTALL PIPE BRACING SYSTEM SEE DETAIL SHEET INSTALL 8" TEE, -INSTALL CONC. PVC FORCE MAIN (REMOVE) DI (2 TYP.) SLAB INSTALL MOLDED 90° ELBOW, SHOP FUSED, (2 TYP.) INSTALL #5 REBAR (6 TYP.) -INSTALL 6" ALUM. QUICK CONNECT. (QUICK CONNECT SHALL BE PLACED ON THE SIDE CROSS, DI (REMOVE) INSTALL ADJUSTABLE S.S. FLANGED INSTALL PREFABRICATED HDPE-VALVE SUPPORTS, (2 TYP.) FLANGE ADAPTER W/S.S. BACKING OF THE WET WELL THAT IS CLOSEST TO THE LDISCHARGE PIPING PLATE, SHOP FUSED, (2 TYP.) LIFT STATION DRIVEWAY/ACCESS) -90° BEND, DI (2 TYP., REMOVE) (2 TYP., REMOVE) 48"X72" MIN. SINGLE HEAVY DUTY ALUMINUM INSTALL POLYETHYLENE WRAP WHERE CONT. PANEL HATCH. BILCO OR APPROVED EQUAL; (12" OFFSET (REMOVE) EX. METER -GATE VALVE (3 TYP., REMOVE) DUCTILE IRON PIPE IS ENCASED IN FROM CENTER 6' DIA. W.W ONLY) & BPA CONCRETE PVC VENT (REMOVE) ELEC PANEL (RELOCATE) INSTALL NEW 10" THICK ROUND WET WELL TOP; VALVE VAULT TOP & NSTALL 6" THICK CONC. PAD, CLASS ALUM. HATCH. (REMOVE) ALUMINUM HATCH (REMOVE) MODIFY WALLS AS NECESSARY TO HAVE 4" REVEAL 1, 3,000 PSI @ 28 DAYS ON TELEMETRY TOWER COMPACTED SOIL (TOP ELEVATION TO TOP SLAB OF WET (REMOVE) MATCH WET WELL RIM ELEVATION) WELL (REMOVE) REMOVE AND INSTALL ALL NEW ELECTRICAL 000000 STRUCTURE (RACK), A CONTROL PANEL, TCU BOX, JUNCTION BOX ENCLOSURES, A METER SAW CUT & REMOVE FIRST 2' OF VALVE CAN, AND A SAFETY SWITCH (DISCONNECT). VAULT WALLS. NEW ELECTRICAL STRUCTURE SHALL BE FIELD LOCATED WITH MANATEE COUNTY PERSONNEL. 6" & 2" PVC WELD SEAMS CONNECT PER MANF. STUB−OUT TO EX. FM PVC -RECOM. INSTALL 1" THICK LAYER WASHED SHELL, -CONCRETE SUPPORT (±350 SY); GRADE THE AREA AROUND WET (3 TYP., REMOVE) WELL TO ALLOW FOR POSITIVE DRAINAGE WET WELL LINER (AGRU)-∠90° DI BEND. MJ E AWAY FROM LIFT STATION AND TO HAVE A 4' REVEAL ON THE WET WELL/VALVE VAULT. INSTALL 316 SS PIPE BRACING SYSTEM (2 MIN.). TOP BRACE TO BE 4' FROM TOP. LOWER BRACE TO BE 4' EX. DRAIN, (ABANDON, -EX. VAULT TO REMAIN; PUNCH HOLES AT THE CORNERS THRU THE BOTTOM OF THE VAULT PRIOR TO BACKFILLING PERSONNEL. ABOVE BASE ELLS. MAX SPACING OF 8' BETWEEN GROUT FILL) BRACES. (SEE DETAIL SHEET) SEPARATE THE TELEMETRY TOWER FROM CONCRETE BASE AND SET TO SIDE OF LIFT STATION SITE. CONTRACTOR SHALL REMOVE PROJECT # 02-001970 5015131 'ਕਿ W/COMPACTED CLEAN FILL (12CY). ~90° ELBOW (2 URVEY # TYP., REMOVE) AND DISPOSE OF CONCRETE BASE. COUNTY SEC./TWN./RGE 32/35/18 SCALE N.T.S. SCALE N.T.S. DA. SUPSYED S. H. -INSTALL 4"X 8" ECC. REDUCER, HDPE (2 TYP.) INSTALL PREFABRICATED HDPE FLANGE ADAPT 'ACKING PLATE, SHOP FUSED (2 TYP.) TAIL 4"T. -REPAIR EX. LINER (±233 SF) SHALL INSTALL NEW TELEMETRY ANTENNA. DAMAGED EXISTING PROTECTIVE LINER(S) AND INFLUENT LINE ∽PIPE BRACING (2 TYP., REMOVE) DETERIORATED WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL (TO REMAIN) INFLUENT LINE PRIOR TO REMOVAL AND INSTALLATION OF (TO REMAIN) CONCRETE REPAIR AND/OR INSTALLATION OF ROTATED FOR NEW PROTECTIVE LINER(S) AND/OR LINER -STAINLESS STEEL GUIDE RAIL SYSTEM (2 TYP., REMOVE) INSTALL NEW 4" BPIU PUMP BASE ELBOWS, TO STATE OF 12/4/19 INSTALL NEW 4" BASE ELBOW MOUNTING PLATES AND ANCHOR BOLTS; MAY REQUIRE GRINDING OR LEVEL OF BASE GROUT (SEE BASE ELL MOUNTING PLATE OF TYP) RELOCATE AND INSTALL A NEW METER, BPA, & HOSE BIBB ASSEMBLY. FIELD LOCATE WITH MANATEE COUNTY PERSONNEL. (±10 LF). DISCHARGE PIPING (2 TYP., REMOVE) INSTALL 6" PVC STUB-OUT & 2" DRAIN STUBOUT FOR FUTURE ODOR CONTROL INTO SIDE WALL OF WET WELL AND REPAIR LINER. STUB-OUT SHALL BE FIELD LOCATED

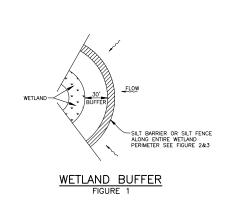
W/COUNTY PERSONNEL.

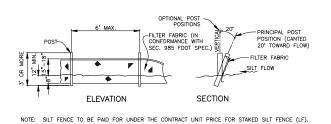
PUMP BASE ELBOWS & ANCHORING HARDWARE (2 TYP., REMOVE)





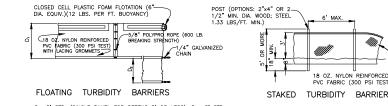




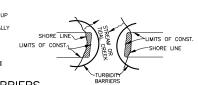


TYPICAL SILT FENCE FIGURE 2

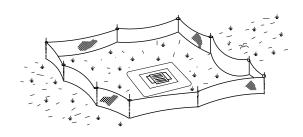
TYPICAL BALE SILT BARRIER FIGURE 3



D, =5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). D_s =5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5'). CURTAIN TO REACH BOTTOM PO DEPTHS OF 10 FEET WO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

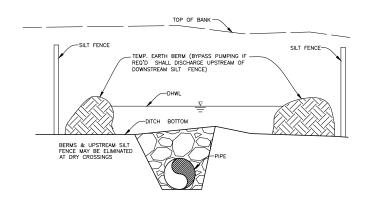


TURBIDITY BARRIERS FIGURE 4

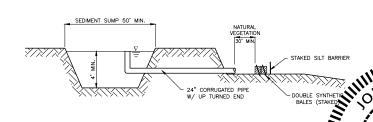


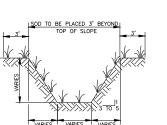
TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

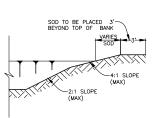


UNDERGROUND PIPE CROSSING

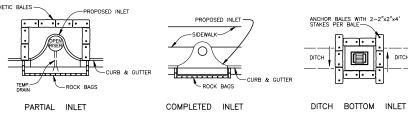




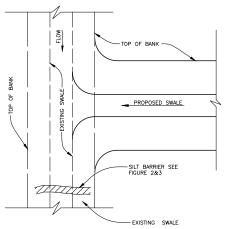
TYPICAL SWALE SECTION FIGURE 5



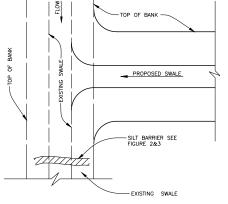
TYPICAL RETENTION/DETENTION POND SECTION

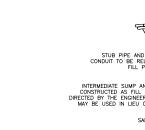


SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE FIGURE 11



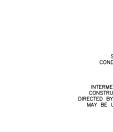


GRASS SLOPES

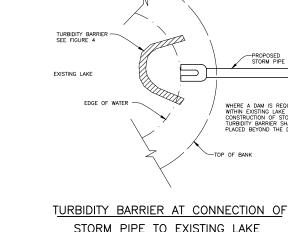
SILT BARRIER AT CONNECTION OF

STORM PIPE TO EXISTING SWALE

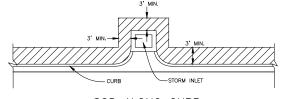
FIGURE 10



TEMPORARY SLOPE DRAIN FIGURE 15



STORM PIPE TO EXISTING LAKE



SOD ALONG CURB AND AROUND INLET

REFERENCE THE FDOT DESIGN STANDARDS LATEST EDITION FOR ALL TEMPORARY EROSION CONTROL MEASURES.

-SHOULDER LINE (FINAL GRADE) SAND BAG CUT-OFF WALL OR IMPERVIOUS CURTAIN (TO BE REMOVED WITH STUB AND ELBOW OR CONDUIT RELOCATION

SECTION AA

SEDIMENT SUMP SECTION

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3420 SATELLITE LIFT STATION 2018 GROUP 3 **EROSION CONTROI**

Manatee County FLORIDA

PROJECT # 402-0019707 SURVEY # SEC./TWN./RGE N.T.S. CALE